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| FORM PTO-1449 (Modified)<br>(Rev. 7-80)  |    | U.S. Dept. of Commerce<br>Patent and Trademark Office         |          | Atty Docket No.<br>SONY-T0291 (S00P0291US00) |       | Appln. No.<br>09/520,910 |                       |
| INFORMATION DISCLOSURE CITATION<br><br>(Use several sheets if necessary)   |    |   |          | Applicant(s)<br>KOICHI MATSUDA ET AL.        |       |                          |                       |
|  |    |   |          | Filing Date<br>March 7, 2000                 |       | Group<br>2739            |                       |
| U.S. PATENT DOCUMENTS  |    |   |          |  |       |                          |                       |
| *Examiner<br>Initials  |    | Document Number   | Date     | Name   | Class | Subclass                 | Filing Date           |
| CN   | AA | 5,393,070   | 02/28/95 | BEST   | 273   | 434                      | 05/05/93              |
| CN   | AB | 5,572,646   | 11/05/96 | KAWAI ET AL.                                 | 395   | 501                      | 08/09/94              |
| CN   | AC | 5,586,257   | 12/17/96 | PERLMAN                                      | 463   | 42                       | 05/05/94              |
| CN   | AD | 5,659,691   | 08/19/97 | DURWARD ET AL.                               | 395   | 329                      | 08/19/97              |
| CN   | AE | 5,727,950   | 03/17/98 | COOK ET AL.                                  | 434   | 350                      | 05/22/96              |
| CN   | AF | 5,754,740   | 05/19/98 | FUKUOKA ET AL.                               | 395   | 68                       | 08/15/95              |
| CN   | AG | 5,761,644   | 06/02/98 | UEDA ET AL.                                  | 705   | 1                        | 08/11/95              |
| CN   | AH | 5,802,296   | 09/01/98 | MORSE ET AL.                                 | 395   | 200.38                   | 08/02/96              |
| CN   | AI | 5,812,126   | 09/22/98 | RICHARDSON ET AL.                            | 345   | 330                      | 12/31/96              |
| CN   | AJ | 5,848,134   | 12/8/98  | SEKIGUCHI ET AL.                             | 379   | 93.15                    | 1/27/97               |
| CN   | AK | 5,850,352   | 12/15/98 | MOEZZI ET AL.                                | 364   | 514 A                    | 06/06/95              |
| CN   | AL | 5,880,731   | 03/09/99 | LILES ET AL.                                 | 345   | 349                      | 03/14/95              |
| CN   | AM | 5,926,179   | 07/20/99 | MATSUDA ET AL.                               | 345   | 355                      | 07/29/97              |
| CN   | AN | 5,941,770   | 08/24/99 | MIERS ET AL.                                 | 463   | 13                       | 05/05/97              |
| CN   | AO | 5,956,028   | 09/21/99 | MATSUI ET AL.                                | 345   | 329                      | 05/11/96              |
| CN   | AP | 5,956,038   | 09/21/99 | REKIMOTO                                     | 345   | 419                      | 07/11/96              |
| CN   | AQ | 5,956,485   | 09/21/99 | PERLMAN                                      | 395   | 200.34                   | 04/06/96              |
| CN   | AR | 5,966,129   | 10/12/99 | MATSUKUMA ET AL.                             | 345   | 418                      | 10/10/96              |
| CN   | AS | 5,966,526   | 10/12/99 | YOKOI  | 395   | 500.32                   | 06/11/97              |
| CN   | AT | 5,971,855   | 10/26/99 | NG   | 463   | 42                       | 09/30/97              |
| CN   | AU | 5,982,372   | 11/09/99 | BRUSH, II ET AL.                             | 345   | 418                      | 11/14/96              |
| CN   | AV | 5,983,003   | 11/09/99 | LECTION ET AL.                               | 395   | 200.32                   | 11/15/96              |
| CN   | AW | 6,009,460   | 12/28/99 | OHNO ET AL.                                  | 709   | 204                      | 12/19/96              |
| FOREIGN PATENT DOCUMENTS   |    |   |          |  |       |                          |                       |
| *Examiner<br>Initials  |    | Document Number   | Date     | Country                                      | Class | Subclass                 | Translation<br>YES NO |
| CN   | AX | 7-160853  | 06/23/95 | JAPAN  | G06F  | 15/62                    | ABSTRACT              |
| CN   | AY | 9-81781   | 03/28/97 | JAPAN  | G06F  | 15/62                    | ABSTRACT              |
| OTHER DOCUMENTS  |    |   |          |  |       |                          |                       |
| CN   | AZ | NIKKEI ELECTRONICS, SEPTEMBER 9, 1996, (NO. 670), PP. 151-159 |          |  |       |                          |                       |
| CN   | BA | NIKKEI ELECTRONICS, JULY 4, 1997, (NO. 686), PP. 131-134      |          |  |       |                          |                       |
| Examiner<br>   |    |   |          | Date Considered<br>12/17/02                  |       |                          |                       |
| * Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. |    |   |          |  |       |                          |                       |

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Sheet 2 of 3

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| FORM PTO-1449 (Modified)<br>(Rev. 7-80)  |    | U.S. Dept. of Commerce<br>Patent and Trademark Office   |  | Atty Docket No.<br>SONY-T0291         | Appln. No.<br>09/520,9106- |
| INFORMATION DISCLOSURE CITATION<br><br>(Use several sheets if necessary)   |    |   |  | Applicant(s)<br>KOICHI MATSUDA ET AL. |                            |
|  |    |   |  | Filing Date<br>March 7, 2000          | Group<br>2739              |
| OTHER DOCUMENTS  |    |   |  |                                       |                            |
| CN   | BB | K. MATSUDA, "LATEST TRENDS OF VRML AND CYBERPASSAGE VRML 2.0 AND JAVA," PART 1, BIT, VOL. 28, NO. 7, JULY 1996, PP. 29-36, ENGLISH TRANSLATION PP. 1-25   |  |                                       |                            |
| CN   | BC | K. MATSUDA, "LATEST TRENDS OF VRML AND CYBERPASSAGE VRML 2.0 AND JAVA," PART 2, BIT, VOL. 28, NO. 8, AUGUST 1996, PP. 57-65, ENGLISH TRANSLATION PP. 1-27   |  |                                       |                            |
| CN   | BD | Y. HONDA, "LATEST TRENDS OF VRML AND CYBERPASSAGE VRML + NETWORK = CYBERSPACE?" PART 3, BIT, VOL. 28, NO. 9, SEPTEMBER 1996, PP. 29-36, ENGLISH TRANSLATION PP. 1-  |  |                                       |                            |
| CN   | BE | Y. HONDA, "LATEST TRENDS OF VRML AND CYBERPASSAGE HOW TO BUILD MULTI-USER ENVIRONMENT USING CYBERSPACE," PART 4, BIT, VOL. 28, NO. 10, PP. 49-58, ENGLISH TRANSLATION PP. 1-27  |  |                                       |                            |
| CN   | BF | C. MORNINGSTAR ET AL. "THE LESSONS OF LUCASFILM'S HABITAT, CYBERSPACE: FIRST STEPS, MIT PRESS, 1992, PP. 273-301  |  |                                       |                            |
| CN   | BG | S. CHEN ET AL., "THE OUT OF BOX EXPERIENCE: LESSONS LEARNED CREATING COMPELLING VRML 2.0 CONTENT," PROCEEDINGS OF THE SECOND SYMPOSIUM ON VIRTUAL REALITY MODELING LANGUAGE, FEB. 1997, PP. 83-92   |  |                                       |                            |
| CN   | BH | B. DAMER ET AL., "PEOPLED ONLINE VIRTUAL WORLDS: A NEW HOME FOR COOPERATING COMMUNITIES, A NEW FRONTIER FOR INTERACTION DESIGN (PANEL), PROCEEDINGS OF THE ACM CONFERENCE ON COMPUTER SUPPORTER COOPERATIVE WORK, NOV. 1996, PP. 441-442  |  |                                       |                            |
| CN   | BI | S. HARRISON ET AL., "RE-PLACEING SPACE: THE ROLES OF PLACE AND SPACE IN COLLABORATIVE SYSTEMS," PROCEEDINGS OF THE ACM CONFERENCE ON COMPUTER SUPPORTER COOPERATIVE WORK, NOV 1996, PP. 67-76   |  |                                       |                            |
| CN   | BJ | R. LEA ET AL., "COMMUNITY PLACE: ARCHITECTURE AND PERFORMANCE," PROCEEDINGS OF THE SECOND SYMPOSIUM ON VIRTUAL REALITY MODELING LANGUAGE, FEB. 1996, PP. 41-50  |  |                                       |                            |
| CN   | BK | B. DAMER, "INHABITED VIRTUAL WORLDS: A NEW FRONTIER FOR INTERACTION DESIGN, INTERACTIONS, VOL. 3, ISSUE 5, SEPT./OCT. 1996, PP. 27-34   |  |                                       |                            |
| CN   | BL | W. BROLL., "POPULATING THE INTERNET: SUPPORTING MULTIPLE USERS AND SHARED APPLICATIONS WITH VRML," PROCEEDINGS OF THE SECOND SYMPOSIUM ON VIRTUAL REALITY MODELING LANGUAGE, FEB. 1997, PP. 33-40   |  |                                       |                            |
| CN   | BM | D. KURLANDER ET AL., "COMIC CHAT," PROCEEDINGS OF THE 23RD ANNUAL CONFERENCE ON COMPUTER GRAPHICS, AUG. 1996, PP. 225-236   |  |                                       |                            |
| CN   | BN | ULTIMA III MANUAL AND SELECTED PAGES FROM ULTIMA I-VIII, COLLECTION MAUAL   |  |                                       |                            |
| CN   | BO | K. PERLIN ET AL., "IMPROV: A SYSTEM FOR SCRIPTING INTERACTIVE ACTORS IN VIRTUAL WORLDS," PROCEEDINGS OF THE 23RD ANNUAL CONFERENCE ON COMPUTER GRAPHICS, AUG. 1996, PP. 205-216   |  |                                       |                            |
| CN   | BP | M. PESCE, "VRML BROWSING & BUILDING CYBERSPACE," NEW RIDERS PUBLISHING 1995, PP. 43-81  |  |                                       |                            |
| CN   | BQ | "SONY BEGINS OEM SALES OF COMMUNITY PLACE VRML 2.0 3D INTERNET BROWSER AND MULTI-USER SERVER SOFTWARE," JANUARY 30, 1997 PRESS RELEASE, MATERIAL COLLECTED FROM THE INTERNET, <a href="http://www.world.sony.com/corporateinfo/news-e/199701/9701-30/index.html">HTTP://WWW.WORLD.SONY.COM/CORPORATEINFO/NEWS-E/199701/9701-30/INDEX.HTML</a> , 3 PAGES |  |                                       |                            |
|  | BR | "VRML 2.0 LABORATORY-HOW TO CREATE," MATERIAL COLLECTED FROM THE INTERNET, MARCH 8, 2000, <a href="http://www.ses.co.jp/ses/staff/kan/howto/howto1.html">HTTP://WWW.SES.CO.JP/SES/STAFF/KAN/HOWTO/HOWTO1.HTML</a> , 5 PAGES   |  |                                       |                            |
| CN   | BS | VIRTUAL REALITY MODELING LANGUAGE VERSION 2.0, ISO/IEC CD 14772, AUGUST 4, 1996, SECTION 4, "CONCEPTS"  |  |                                       |                            |
| Examiner<br><i>Santoguer</i>   |    | Date Considered<br>12/17/02   |  |                                       |                            |
| * Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. |    |   |  |                                       |                            |



ATTACHMENT A

LIST OF U.S. PATENT APPLICATIONS

NOT FOR PRINTING

In accordance with MPEP § 609 C(2), the Examiner is respectfully requested to consider the listed applications and indicate on Attachment A that the listed applications have been considered.

|                                |                          |                                |                              |               |
|--------------------------------|--------------------------|--------------------------------|------------------------------|---------------|
| Atty. Docket No.<br>SONY-T0291 | Appln. No.<br>09/520,910 | Applicant(s)<br>KOICHI MATSUDA | Filing Date<br>March 3, 2000 | Group<br>2739 |
|--------------------------------|--------------------------|--------------------------------|------------------------------|---------------|

| *Examiner<br>Initials |    | U.S. PATENT APPLICATIONS   | FILING DATE      |
|-----------------------|----|----------------------------|------------------|
| IN                    | BT | APPLICATION NO. 09/081,147 | May 19, 1998     |
| CN                    | BU | APPLICATION NO. 09/084,515 | May 26, 1998     |
| CN                    | BV | APPLICATION NO. 09/205,947 | December 4, 1998 |
| CN                    | BW | APPLICATION NO. 09/229,818 | January 13, 1999 |

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| Examiner<br> | Date Considered<br>12/17/02. |
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